

Algebra 2

1-01 Solve Linear Systems of Equations and Inequalities by Graphing

System of equations

- More than one _____ that share the _____ solution.
- Often, they involve more than one _____.
- In order to solve them, you need _____ equations as there are _____.

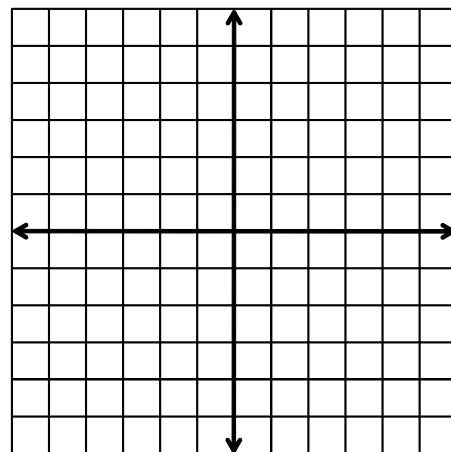
Solutions to systems

- An _____ that works in _____ equations.
- Solutions are where the graphs _____.

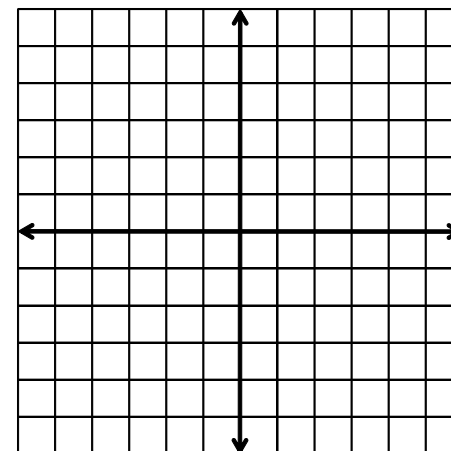
Solve by graphing

1. Graph both equations on the _____ graph.
2. Where they cross is the _____.

Solve by graphing $\begin{cases} 3x + 2y = -4 \\ x + 3y = 1 \end{cases}$



Solve by graphing $\begin{cases} 3x - 2y = 10 \\ 3x - 2y = 2 \end{cases}$

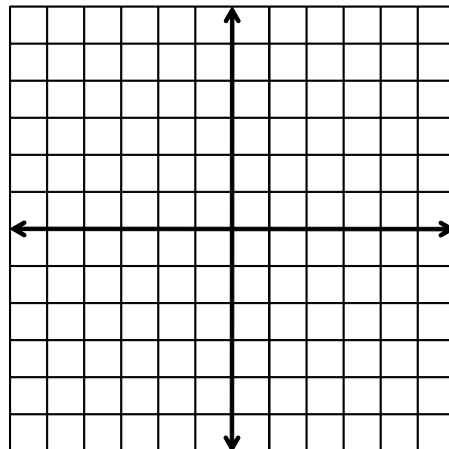


To solve systems of inequalities

- Graph them all on _____ graph.
- Solution is where all graphs _____.

Solve the system of inequalities

$$\begin{cases} x \geq 2 \\ x + y < 3 \end{cases}$$



Solve the system of inequalities

$$\begin{cases} y < -\frac{4x}{5} - 4 \\ y > -\frac{4x}{5} + 2 \end{cases}$$

